



**NIJ FY 08 Coverdell Forensic Science Improvement
Grant Program 2008-91981-OR-CD**



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APPLICATION FOR FEDERAL ASSISTANCE		2. DATE SUBMITTED	Applicant Identifier
1. TYPE OF SUBMISSION Application Non-Construction	3. DATE RECEIVED BY STATE		State Application Identifier
	4. DATE RECEIVED BY FEDERAL AGENCY		Federal Identifier
5. APPLICANT INFORMATION			
Legal Name City of Portland		Organizational Unit Portland Police Bureau	
Address 1120 SW Fifth Avenue Room 1250 Portland, Oregon 97204-1912		Name and telephone number of the person to be contacted on matters involving this application Craig, Sheila (503) 823-6863	
6. EMPLOYER IDENTIFICATION NUMBER (EIN) 93-6002236		7. TYPE OF APPLICANT Municipal	
8. TYPE OF APPLICATION New		9. NAME OF FEDERAL AGENCY National Institute of Justice	
10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER: 16.742 CFDA TITLE: DOJ PAUL COVERDELL FORENSIC SCIENCES IMPROVEMENT GRANT PROGRAM		11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT Portland Police Bureau Identification Division Forensic Services Improvement	
12. AREAS AFFECTED BY PROJECT Portland, Oregon Multnomah County, Oregon			
13. PROPOSED PROJECT Start Date: October 01, 2008 End Date: September 30, 2009		14. CONGRESSIONAL DISTRICTS OF a. Applicant b. Project OR01 OR05 OR03	
15. ESTIMATED FUNDING		16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?	
Federal	\$76,157		
Applicant	\$0		

State	\$0	Program is not covered by E.O. 12372
Local	\$0	
Other	\$0	
Program Income	\$0	17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT?
TOTAL	\$76,157	N
18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION PREAPPLICATION ARE TRUE AND CORRECT, THE DOCUMENT HAS BEEN DULY AUTHORIZED BY GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS REQUIRED.		

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U.S. Department of Justice, Office of Justice Programs, National Institute of Justice
Paul Coverdell Forensic Science Improvement Grant
Proposal Abstract
City of Portland, Oregon Police Bureau Application Attachment 1

Proposal Abstract

The Portland Police Bureau Identification Division provides crime scene investigation for the Police Bureau, as well as identification of all arrested subjects booked into the Multnomah County Justice Center jail. The Division's staff consists of criminalists who process crime scenes and technicians who fingerprint and identify arrested subjects.

The entry-level training programs for criminalists and technicians are comprehensive but due to budgetary constraints, the Bureau lacks resources for continuing education. Without adequate advanced training in the forensic sciences, the staff is unable to obtain certifications in their fields of work. Certification by the International Association for Identification (IAI), the most recognized professional society in crime scene investigation and fingerprint identification, is necessary for the Identification Division to provide a higher standard of forensic services to the Police Bureau, the Multnomah County Sheriff's Office, the Multnomah County District Attorney's office and the citizens of Portland and Multnomah County.

Project Goals and Objectives:

1. Reduce backlog of more than 1,000 unidentified latent prints
2. Provide training and advanced certification for Division personnel

Project Plans:

1. Improve the quality of data input into the Western Identification Network Automated Fingerprint Identification System (WIN AFIS)
2. Design and implement an in-house self-study certification program

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Methods for Achievement of Project Goals:

1. Purchase hardware, software and training materials that will aide Division personnel in reducing the backlog of unidentified latent prints and developing latent prints of value from difficult sources.
2. Implement a self-study program to allow eligible criminalists time to work toward Crime Scene Analyst and Senior Crime Scene Analyst certification by the IAI
3. Implement advanced tenprint and courtroom testimony training for technicians to assist those eligible for IAI Tenprint Fingerprint certification to qualify

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Program Narrative
City of Portland, Oregon Police Bureau Application Attachment 2

Introduction:

The Portland Police Bureau Identification Division operates 24-hours a day, 365 days a year providing crime scene investigation throughout the City of Portland, Oregon and identification of all arrested subjects booked into the Multnomah County Justice Center jail. The Portland Police Bureau completed a remodel and expansion of the Identification Division forensic laboratory in 2007. The remodel included state of the art down-flow workstations for fingerprint powder, new fuming hoods, cyanoacrylate (superglue) vacuum chambers, an extra large dye stain fuming hood and a vented chemical storage locker.

Portland's Current Model of Success:

The Division's crime scene staff consists of 18 sworn members (criminalists). The criminalists process crime scenes, collect evidence and examine latent prints. In 2007, the Bureau reported 33,628 major crimes, of which 5,762 required a criminalist's response. Criminalists were able to obtain 1,516 latent prints of value resulting in 520 identifications. The new laboratory space and equipment allowed for properly processing the obtained evidence. Latent prints were lifted and entered into the Western Identification Network Automated Fingerprint Identification System (WIN AFIS) and into the Federal Bureau of Investigation Integrated Automated Fingerprint Identification (FBI IAFIS) to identify criminal suspects.

The Division's 21 non-sworn identification technicians fingerprint and identify arrested subjects booked into Multnomah County Justice Center jail through a cooperative agreement with the County. In 2007, 36,875 people were identified. Technicians classify and enter fingerprints into the WIN AFIS, compare candidate prints, identify all arrested subjects prior to their release and testify in court as to their findings. The superior prints rolled by the technicians

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support the work of the criminalists since the quality of rolled fingerprints entered into the WIN AFIS system directly impacts the ability of the system to hit on hard-to-identify latent prints.

Portland's identification technicians are recognized within the WIN AFIS member states (Oregon, Idaho, Montana, Wyoming, Utah, Alaska and Nevada) as able to obtain the best quality fingerprints.

Program Concerns:

Since the O.J. Simpson trial, crime scene evidence collection methods and processing have come under sharp scrutiny. Defense attorneys have challenged the methods and qualifications of those who process crime scenes in an attempt to have evidence discredited or cast doubt on the chain of evidence. With the popularity of television programs *CSI*, *Law and Order* and *NCIS*, public and court expectations have risen dramatically in the area of physical evidence collection and forensic identification.

In order to counter these expectations, it is important to show that forensic work is performed in a setting of acceptable standards and practices by highly-trained and certified personnel.

Bureau criminalists complete an intensive and rigorous 12-month in-house training program. The training covers crime scene photography, evidence collection, report writing, latent print collection, evaluation and comparison, WIN AFIS entry, homicide investigation and court testimony.

Bureau technicians complete a nine-month in-house training program that covers capturing fingerprints, palm prints and other friction ridge sources from arrested subjects using

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ink and electronic capture methods, classifying and entering fingerprints into WIN AFIS, comparing fingerprints to those on file to make identifications and basic court testimony.

Although entry level criminalists and technicians receive exceptional training, the Bureau does not have the financial resources to pay for continuing education, which would enhance the Division's forensic services. In the past 10 years, the Bureau has reduced the Identification Division's training and travel budgets by a combined 68 percent due to local budget constraints. Without the money, training and advanced certification is not feasible.

In addition to the reduction in the training and travel budgets, the Division's overtime budget has been reduced 46 percent. Overtime money, when available, is used primarily to cover the extended time involved in working major cases such as rape, robbery, aggravated assault, officer-involved shootings and homicides. Overtime money is also used to pay for personnel to attend trainings and to cover staff shortages.

Project Objectives and Results:

The Bureau's forensic laboratory remodel allows Division staff to develop latent prints on new types of evidence. However, developing latent prints does not always translate into clean entries into the WIN AFIS system. Some items with viable prints have "background noise" that makes the print difficult to enter into the system. Evidence with patterned backgrounds, color/contrast issues, chemical processing or reflective surfaces needs to be enhanced digitally to be entered into the WIN AFIS system. The Division has a backlog of more than 1,000 unidentified latent prints.

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Equipment:

The Division has only one workstation/personal computer with a full version of Adobe Photoshop CS2. The software program enhances latent prints. The same workstation doubles as the FBI IAFIS computer. The computer is several years old and crashes when trying to run the CS2 program. Other Division computers are not capable of running advanced graphics software specific to the Division's needs. It is estimated 50 percent of the unidentified latent print backlog would benefit from reentry into the WIN AFIS and FBI IAFIS systems using Photoshop software.

With only one semi-functioning Photoshop computer, training on the use of software has been limited. Less than 20 percent of the Division staff has been formally trained to use the graphic software. It takes four to six times longer to work on and enter a print due to the lack of high-speed processing personal computers. Those not trained in the use of the software enter a latent print multiple times into the WIN AFIS or FBI IAFIS system using various search parameters in order to increase the chance on finding a match.

To fully develop and search latent prints the Bureau needs to purchase high speed computers that can run advanced graphics software. The Division proposes purchasing five Dell Precision T500 Workstations for advanced development of digitally captured prints. The Workstations are capable of running large graphics programs, such as Adobe Photoshop CS3 and Lightroom, which are used for forensic image analysis.

The Workstations digitally enhance captured latent prints that have some of the following issues: found on patterned backgrounds, have color/contrast issues, were chemically processed or were difficult to lift due to substrate, contrast, powder, or light reflection on tape surface. The

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purchase of five Adobe Photoshop CS3 software packages will allow the users of each workstation to show each step followed in enhancement, which may be replicated for court purposes. The software also has the ability to calibrate a digital image so a true one-to-one comparison may be made. Adobe Photoshop CS3 will create computer-generated courtroom charts that provide a clear example of how latent identification was made.

The five workstations and software packages will allow the staff to operate efficiently on the backlog of unidentified latent prints. The Division anticipates reducing input time by 75 percent.

To fully utilize the Adobe Photoshop CS3 software the Division will need to provide formal training for at least eight criminalists. The training will ensure enough staff has the knowledge to use the equipment effectively and train the rest of the staff.

Training and Certification:

The International Association for Identification (IAI) is the largest and oldest forensic organization. They are recognized worldwide for contributions to the advancement of forensic science. Many agencies certify their crime scene technicians, latent print examiners and tenprint examiners as proficient. Certification of the Bureau's Identification staff by a international organization with the prestige and history of the IAI will add credibility and professional backing to the term "expert witness," which is crucial at trial.

The Division's goal is to enhance the criminalist training program and certify all 18 criminalists as crime scene investigators with the IAI. The Division will host an IAI-approved seminar with a certified trainer. The class, combined with in-house training, will meet the IAI requirement of 48 hours of Crime Scene Certification Board-approved instruction. The 18

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criminalists will attend a class followed by a proctored exam. This will enable all criminalists to attain certification effectively and efficiently. Other agencies in the area will be invited to attend this training to help promote interagency cooperation.

In addition to the Basic Level 1 Crime Scene Investigator (CSI) training, several criminalists have the experience and training to qualify for Level 2 Crime Scene Analyst (CSA). In order to prepare for this test and review the proper IAI-approved literature the Division will set up self-study and group-study programs. It is estimated four hours per week per criminalist over a 10- to 12-week period will allow them time to read the material (*Crime Scene Investigations* by Fish, Miller and Braswell), meet to discuss concepts and prepare for the test.

While reviewing the requirements for IAI certification, the Division concluded several staff members may qualify for Level 3 Senior Crime Scene Analyst (SCSA) certification. Again, in order to prepare for the test and review the proper IAI-approved literature the Division will set up self-study and group-study programs. It is estimated four hours per week per criminalist over a 10- to 12- week period will allow them time to read the material (*Criminalistics: An Introduction to Forensic Science* by Richard Saferstein), meet to discuss concepts and prepare for the test.

The training and certification program will increase the criminalists' quality of work and their credibility in court. The program will also standardized the Division's training and put into motion the process to move the entire staff toward higher levels of certification.

In March 2004, terrorists detonated bombs on a number of trains in Madrid, Spain, killing approximately 191 people, and injuring thousands more, including a number of United States citizens. In May 2004, Brandon Bieri Mayfield, a 37-year-old civil and immigration lawyer,

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practicing in Portland, Oregon, was arrested as a material witness with respect to a federal grand jury's investigation into that bombing. An affidavit signed by FBI Special Agent Richard K. Werder, submitted in support of the government's application for the material witness arrest warrant, averred that Mayfield's fingerprint had been found on a bag in Spain containing detonation devices similar to those used in the bombings, and that he had to be detained so that he could not flee before the grand jury had a chance to obtain his testimony.

As was published later that month, the government announced the FBI has erred in its identification of Mayfield and moved to dismiss the material witness proceeding. In the *Brandon Mayfield, Et Al V. United States of America* case, and other industry known cases¹, tenprint technician testimony was challenged, bringing into question standard forensic training and methods of identification. In order to increase the Division technicians' expertise in making identifications and accurately describing the process in court, advanced training is required.

The Bureau's identification technician rigorous but basic nine-month on-the-job training program includes FBI-approved basic fingerprint school. The technicians compare rolled impressions instead of latent prints, which was at issue in the *Daubert* and *Kumho Tire* cases. The U.S. Supreme Court ruled that District Court judges act as "gatekeepers"² of expert testimony, "to ensure that proffered expert testimony is sufficiently relevant and reliable to justify its submission to the trier of fact."³ To be considered expert witnesses, technicians must receive additional training in advanced tenprint identification.

¹ *William Daubert, Et Ux., Etc., Et Al, Petitioners V. Merrell Dow Pharmaceuticals, Inc. and Kumho Tire Co., Ltd., Et Al. V. Carmichael Et Al.*

² *William Daubert, Et Ux., Etc., Et Al., Petitioners V. Merrell Dow Pharmaceuticals, Inc*

³ *Kumho Tire Co., Ltd., Et Al. V. Carmichael Et Al.*

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Proposed training will include classes that offer instruction on the scientific method of fingerprint identification, including ACE-V methodology for friction ridge identification, information on the various levels of detail and training on how tenprint technicians may assist latent print examiners through better entry of prints into an AFIS. The goal is for technicians to be certified by the IAI in order to demonstrate their work is done within a setting of acceptable standards and practices. As with the Crime Scene Investigators training, the Identification Division will host the class in their training facilities and invite members from local and state agencies to participate.

Criminalists are experienced in giving courtroom testimony since they routinely testified in court cases while they were police officers prior to being promoted. Technicians, as non-sworn employees, do not have the same experience. A technician may be called to court to testify on cases from shoplifting to homicide. Without proper training and preparation, even an expert in their field may not be able to clearly and concisely testify. Identification will host an expert witness class geared toward fingerprint identification. Nearly half of the Division's technicians have limited or no experience in courtroom testimony. Should one of the technicians be questioned in a *Frye* hearing (usually requested by a defense attorney to stop admission of evidence by challenging the acceptance of scientific or theory within its field or scientific community) the technician may have a difficult time explaining the technicalities to the court's satisfaction. The Division will host a course covering questions one might expect in a *Frye* hearing and invite other agencies in the state to attend.

As with the criminalist training the technician training will improve overall quality and efficacy of the technicians' work by improving their ability to make difficult identifications and

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clearly explain the process in a courtroom setting. Although a backlog in tenprint identifications does not exist, the training will enhance the quality of information in the database, which in turn will positively impact the latent backlog.

Staffing and Overtime:

In order to send the Division's criminalist staff to the Crime Scene Investigator training the Bureau will need to provide laboratory coverage with other qualified staff. This may be accomplished three ways:

1. Adjust work schedules to minimize the impact on the Bureau,
2. Work at minimum staffing levels during the trainings, or
3. Provide overtime pay to backfill needed positions

The Division proposes to use Coverdell grant funds to pay for 380 hours of overtime to backfill criminalist positions while the criminalists participate in the proposed self-study and group-study programs and the Forensic Photoshop trainings.

The Division also proposes to use Coverdell grant funds to pay for 148 hours of overtime to backfill technician positions while the technicians attend trainings.

Consultants:

The Identification Division proposes to hire an instructor for the Crime Scene Investigator certification test. As part of the contract, the instructor would be housed, courtesy of the grant, in a conveniently located Portland hotel for the seven days necessary to complete the training. The cost of the instructor's meals and travel would be covered by the class fees.

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Implementation Approach:

The Identification Division proposes within the first two months of the grant award date they will:

1. Purchase all necessary textbooks for Crime Scene Certification to allow students to begin review of the materials
2. Contact IAI-certified instructors and collect data of their availability and prepare a contract
3. Purchase computer hardware and software
4. Schedule instructors and classes for Forensic Photoshop. Prepare contract, if necessary.

By the third month of funding the Division will select instructors and schedule classes. They will also catalog their in-house training and determine what can be certified by the IAI toward their training requirements. By the third month the Division should have the computer hardware and software installed and the criminalists trained on Photoshop.

Performance Measures:

The Identification Division, in order to assess the improvement to quality and timeliness of forensic services and the backlog of unidentified latent prints, will measure the following:

1. The number of backlogged latent prints researched and identified by using the advanced hardware and software funded by the grant.
2. Reduction in time it takes to enter enhanced latent prints using the hardware and software funded by the grant.

U.S. Department of Justice, Office of Justice Programs, National Institute of Justice
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3. The number of Division personnel who complete the training classes funded by the Coverdell grant.
4. The number of certifications obtained from the IAI

The Division will generate a semiannual progress report of training accomplishments and a Quarterly Financial Status Report. All training and installations will be fulfilled within 12 months of receipt of the grant.

U.S. DEPARTMENT OF JUSTICE
OFFICE OF JUSTICE PROGRAMS
NATIONAL INSTITUTE OF JUSTICE

**FY 2008 Coverdell Forensic Science Improvement
Grants Program**

Certification as to Plan for Forensic Science Laboratories—
Application from a **Unit of Local Government**

On behalf of the applicant agency named below, I certify the following to the National Institute of Justice, Office of Justice Programs, U.S. Department of Justice:

This unit of local government has developed a plan for forensic science laboratories under a program intended to improve the quality and timeliness of forensic science or medical examiner services provided by the laboratories operated by the applicant unit of local government and any other government-operated laboratories within the State that will receive a portion of the grant amount.

I have authority to make this certification on behalf of the applicant agency (that is, the agency applying directly to the National Institute of Justice).

Rosanne M Sizer By Acting Chief of Police
Signature of Certifying Official Paul Martinik

ROSANNE M. SIZER
Printed Name of Certifying Official

CHIEF OF POLICE
Title of Certifying Official

CITY OF PORTLAND, OREGON POLICE BUREAU
Name of Applicant Agency
(Including Name of Unit of Local Government)

5/28/08
Date

U.S. DEPARTMENT OF JUSTICE
OFFICE OF JUSTICE PROGRAMS
NATIONAL INSTITUTE OF JUSTICE

**FY 2008 Coverdell Forensic Science Improvement
Grants Program**

Certification as to Generally Accepted Laboratory
Practices and Procedures

On behalf of the applicant agency named below, I certify the following to the National Institute of Justice, Office of Justice Programs, U.S. Department of Justice:

Any forensic laboratory system, medical examiner's office, or coroner's office in the State, including any laboratory operated by a unit of local government within the State, that will receive any portion of the grant amount uses generally accepted laboratory practices and procedures, established by accrediting organizations or appropriate certifying bodies.

I have authority to make this certification on behalf of the applicant agency (that is, the agency applying directly to the National Institute of Justice).

Rosanne M Sizer *acting chief of Police
Brian Marshall*
Signature of Certifying Official

ROSANNE M. SIZER

Printed Name of Certifying Official

CHIEF OF POLICE

Title of Certifying Official

CITY OF PORTLAND, OREGON POLICE BUREAU

Name of Applicant Agency

(Including Name of State or Unit of Local Government)

5/28/08
Date

U.S. DEPARTMENT OF JUSTICE
OFFICE OF JUSTICE PROGRAMS
NATIONAL INSTITUTE OF JUSTICE

**FY 2008 Coverdell Forensic Science Improvement
Grants Program**

Certification as to Use of Funds for New Facilities

On behalf of the applicant agency named below, I certify the following to the National Institute of Justice, Office of Justice Programs, U.S. Department of Justice:

The amount of the grant (if any) used for the costs of any new facility or facilities to be constructed as part of a program to improve the quality and timeliness of forensic science and medical examiner services will not exceed the limitations set forth at 42 U.S.C. § 3797m(c) and summarized in the FY 2008 Coverdell Forensic Science Improvement Grants program announcement.

I have authority to make this certification on behalf of the applicant agency (that is, the agency applying directly to the National Institute of Justice).

Rosanne M. Sizer *acting Chief of Police*
Signature of Certifying Official *Brian Martink*

ROSANNE M. SIZER

Printed Name of Certifying Official

CHIEF OF POLICE

Title of Certifying Official

CITY OF PORTLAND, OREGON POLICE BUREAU

Name of Applicant Agency
(Including Name of State or Unit of Local Government)

5/29/08
Date

U.S. DEPARTMENT OF JUSTICE
OFFICE OF JUSTICE PROGRAMS
NATIONAL INSTITUTE OF JUSTICE

FY 2008 Coverdell Forensic Science Improvement
Grants Program

Certification as to External Investigations

On behalf of the applicant agency named below, I certify the following to the National Institute of Justice, Office of Justice Programs, U.S. Department of Justice:

A government entity exists and an appropriate process is in place to conduct independent external investigations into allegations of serious negligence or misconduct substantially affecting the integrity of the forensic results committed by employees or contractors of any forensic laboratory system, medical examiner's office, coroner's office, law enforcement storage facility, or medical facility in the State that will receive a portion of the grant amount.

I personally read and reviewed the section entitled "Eligibility" in the FY 2008 program announcement for the Coverdell Forensic Science Improvement Grants Program. I acknowledge that a false statement in this certification or in the grant application that it supports may be subject to criminal prosecution, including under 18 U.S.C. § 1001.

I have authority to make this certification on behalf of the applicant agency (that is, the agency applying directly to the National Institute of Justice).

Rosanne M Sizer
Signature of Certifying Official

By Acting Chief of Police
Barbara Montford

ROSANNE M. SIZER
Printed Name of Certifying Official

CHIEF OF POLICE
Title of Certifying Official

CITY OF PORTLAND, OREGON POLICE BUREAU
Name of Applicant Agency
(Including Name of State or Unit of Local Government)

5/28/08
Date

**FY 2008 Coverdell Forensic Science
Improvement Grants Program**

Attachment: External Investigations

The "Certification as to External Investigations" that is submitted on behalf of the applicant agency as part of this application certifies that—

A government entity exists and an appropriate process is in place to conduct independent external investigations into allegations of serious negligence or misconduct substantially affecting the integrity of the forensic results committed by employees or contractors of any forensic laboratory system, medical examiner's office, coroner's office, law enforcement storage facility, or medical facility that will receive a portion of the grant amount.

Prior to receiving funds, the applicant agency (that is, the agency applying directly to the National Institute of Justice) must provide—for each forensic laboratory system, medical examiner's office, coroner's office, law enforcement storage facility, or medical facility that will receive a portion of the grant amount—the name of the "government entity" (or entities) that form the basis for the certification. Please use the template below to provide this information. (Applicants may adapt this template, if necessary, but should ensure that the adapted document provides all the required information.)

IMPORTANT NOTE: If necessary for accuracy, list more than one entity with respect to each intended recipient of a portion of the grant amount. For example, if no single entity has an appropriate process in place with respect to allegations of serious negligence as well as serious misconduct, it will be necessary to list more than one entity. Similarly, if no single entity has an appropriate process in place with respect to allegations concerning contractors as well as employees, it will be necessary to list more than one entity.

Additional guidance regarding the "Certification as to External Investigations" appears in the "Eligibility" section of the program announcement for the FY 2008 Coverdell program.

Name of Applicant Agency (including Name of State or Unit of Local Government):
CITY OF PORTLAND, OREGON POLICE BUREAU

Date: 052708

**Name of any forensic laboratory system,
medical examiner's office, coroner's office,
law enforcement storage facility, or medical
facility that will receive a portion of the grant
amount**

1. PORTLAND POLICE
IDENTIFICATION DIVISION

2. _____

**Existing government entity (or entities) with
an appropriate process in place to conduct
independent external investigations**

PORTLAND POLICE BUREAU
INTERNAL AFFAIRS DIVISION
CITY OF PORTLAND
INDEPENDENT POLICE REVIEW DIVISION

U.S. Department of Justice, Office of Justice Programs, National Institute of Justice
Paul Coverdell Forensic Science Improvement Grant
Budget Narrative
City of Portland, Oregon Police Bureau Application Attachment 3

Budget Narrative

Section A: Personnel (\$28,766.76) This expense will allow the Portland Police Bureau to pay overtime for criminalist and technician personnel to backfill positions for staff attending weekday training.

Criminalist overtime will be used to maintain the quality of service provided to the Bureau for crime scene calls and prevent a backlog of casework. The overtime hours will also be supplemented with adjusted shifts and staffing at minimal levels needed to adequately support crime scene calls.

Technician overtime will be used to maintain the timeliness of criminal identification and support to the criminalists. Overtime will be used in coordination of adjusting work schedules and staffing at minimal levels needed to support Division services.

Section B: Fringe Benefits (\$1,782.10) This expense reflects the employees' benefits that are reimbursable by the grant. Fringe benefits on overtime hours are limited to FICA, Workman's Compensation and Unemployment Compensation. As the City of Portland is a reimbursing, or self-paying, employer, only FICA (Social Security) is eligible for overtime reimbursement.

Section C: Travel (\$ - 0-) There are no travel expenses associated with this grant request.

Section D: Equipment (\$20,050.00) These expenses relate to the computer hardware and software equipment requested by the Identification Division to upgrade the division's technological capacity and functionality.

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The hardware includes five Dell Precision T5400 Workstations each with four gig RAM, NVIDIA Quadro FX 1700 graphics card, two SATA 3.0 GB 7200 RPM with eight MB Data Burst Cache 250 GB, DVD writer, media card reader and a 22-inch Ultra Sharp Wide Screen Flat Panel monitor.

The software package for each Workstation includes Adobe Photoshop CS3 with Lightroom, industry standard editing tools, non-destructive editing capability and advanced image enhancement. The software package will allow the user to show each step followed in enhancement, which may be replicated for court purposes. The software also has the ability to calibrate a digital image so a true one-to-one comparison may be made. Adobe Photoshop CS3 will create computer-generated courtroom charts that provide a clear example of how latent identification was made.

The five workstations and software packages will allow staff to operate efficiently on the backlog of unidentified latent prints. The Division anticipates reducing input time by 75 percent.

Section E: Supplies (\$2,121.00) These expenses relate to the Crime Scene certification materials, *Crime Scene Photography* by Edward Robinson, 2007, *Practical Crime Scene Processing and Investigation* by Ross M. Gardner, 2005, *Crime Scene Investigation* by Fish, Miller and Braswell, 2007 and *Criminalistics: An Introduction to Forensic Science* (9th Edition) by Richard Saferstein, 2007.

Multiple sets of the reading material will allow multiple Division personnel to study at the same time thus allowing more personnel to take the exam at the same time.

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Section F: Construction (\$ -0-) There are no construction costs associated with this grant request.

Section G: Consultants/Contracts (\$1,018.00) This expense is for the lodging accommodations for the certification instructor. The Division will host an instructor for one week. The instructor will teach two classes and proctor the test at the end of the week. All other expenses will be covered by class fees.

Section H: Other Costs (\$ 22,415.00) These expenses will cover tuition for four classes for Division's 18 criminalists and 21 technicians and testing fees for the certification program for the Division's 18 criminalists.

Section I: Indirect Costs (\$ - 0-)

There are no indirect costs anticipated or associated with this grant request.

U.S. Department of Justice, Office of Justice Programs, National Institute of Justice
 Paul Coverdell Forensic Science Improvement Grant
 Budget Detail Worksheet and Summary
 City of Portland, Oregon Police Bureau Application Attachment 4

A. Personnel:

<u>Position</u>	<u>Computation</u>	<u>Cost</u>
Criminalist – overtime (OT) rate	\$57.72 per hour x 380 hours	\$ 21,933.60
Identification Technician – OT rate	\$46.17 per hour x 148 hours	6,833.16
	Subtotal:	\$ 28,766.76

B. Fringe Benefits: Fringe benefits on overtime hours are limited to FICA, Workman's Compensation and Unemployment Compensation.

Criminalist	\$21,933.60 x 0.061950 (FICA)	\$ 1,358.79
Identification Technician	\$6,833.16 x 0.061950 (FICA)	423.31

The City of Portland is a reimbursing, or self-paying, employer.

Subtotal: \$ 1,782.10

C. Travel: Not applicable

D. Equipment:	<u>Computation</u>	<u>Cost</u>
Dell Precision T5400 Workstation	\$3,187.00 x 5 each	\$ 15,935.00
Photoshop CS3 with Lightroom program	\$823.00 x 5 each	4,115.00
	Subtotal:	\$ 20,050.00

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E. Supplies:	<u>Computation</u>	<u>Cost</u>
Training materials - CSI	\$165.00 x 9 sets	\$ 1,485.00
Training materials - CSA	\$46.00 x 6 sets	276.00
Training materials - SCSA	\$120.00 x 3 sets	360.00
	Subtotal:	\$ 2,121.00

F. Construction: Not applicable

G. Consultants/Contracts:

Consultant Fees: Not applicable

Consultant Expenses:

<u>Item</u>	<u>Computation</u>	<u>Cost</u>
Lodging/Hotel	\$127.25 per night x 8 nights	\$ 1,018.00
Contracts:	Not applicable	
	Subtotal:	\$ 1,018.00

H. Other Costs:

<u>Description</u>	<u>Computation</u>	<u>Cost</u>
Tuition for Crime Scene Investigator class	\$295.00 x 17 criminalists	\$ 5,015.00
Tuition for Forensic Photoshop class	\$600.00 x 8 criminalists	4,800.00
Tuition for Advanced Friction Ridge Analysis	\$550.00 x 9 technicians	4,950.00

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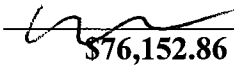
Tuition for Fingerprint Expert Witness Testimony Techniques

	\$300.00 x 9 technicians	2,700.00
Testing fees for IAI CSI Certification	\$150.00 x 18 criminalists	2,700.00
Testing fees for IAI CSA Certification	\$150.00 x 12 criminalists	1,800.00
Testing fees IAI SCSA Certification	\$150.00 for 3 criminalists	450.00
	Subtotal:	\$22,415.00

I. Indirect Costs: Not applicable

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Budget Summary

<u>Budget Category</u>	<u>Amount</u>
A. Personnel Costs:	\$28,766.76
B. Fringe Benefits:	1,782.10
C. Travel:	- 0 -
D. Equipment:	20,050.00
E. Supplies:	2,121.00
F. Construction:	- 0 -
G. Consultants/Contracts:	1,018.00
H. Other Costs:	22,415.00
I. Indirect Costs:	- 0 -
Total Project Costs:	 \$76,152.86
Federal Request:	\$76,152.86
Non-Federal Amount:	- 0 -